

11701 I-30 Bldg 1, Ste 115 - Little Rock, AR 72209 501-455-3233 Fax 501-455-6118

07 January 2013

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

RE: Arkwood Monthly Sampling

SDG Number: 1212303

Enclosed are the results of analyses for samples received by the laboratory on 31-Dec-12 08:15. If you have any questions concerning this report, please feel free to contact me.

## Sample Receipt Information:

Custody Seals							
Containers Correct							
COC/Labels Agree	<i>~</i>						
Preservation Confirmed							
Received On Ice							
Temperature on Receipt	1.0°C						

Sincerely,

Norma James

President

07 January 2013

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd. Overland Park, KS 66221

**Project: Arkwood Monthly Sampling** 

Date Received: 31-Dec-12 08:15



Sample Delivery Group - 1212303

## **Semivolatiles Analysis:**

The three compounds labeled (surr) on the attached final report are "surrogates." Recovery of surrogates is for lab use only to determine the effectiveness of the extraction procedure; surrogate recoveries are not analytical results. The three surrogate compounds are as follows: 2,4,6-tribromophenol, 2-fluorophenol, and Phenol-d5.



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# **ANALYTICAL RESULTS**

Lab Number: 1212303-01
Sample Name: Mouth
Date/Time Collected: 12/28/12 13:25
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	<u>Result</u>	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	<u>Method</u>
Pentachlorophenol	ug/L	25.0		1/2/13 16:15	A301011	8270D
2,4,6-Tribromophenol [surr]	%	65.8		1/2/13 16:15	A301011	8270D
2-Fluorophenol [surr]	%	58.7		1/2/13 16:15	A301011	8270D
Phenol-d5 [surr]	%	40.3		1/2/13 16:15	A301011	8270D

## **ANALYTICAL RESULTS**

Lab Number: 1212303-02
Sample Name: Weir
Date/Time Collected: 12/28/12 13:00
Sample Matrix: Water

<u>Semivolatiles</u>	<u>Units</u>	Result	Qualifier(s)	Date/Time Analyzed	<u>Batch</u>	Method
Pentachlorophenol	ug/L	< 1.00		1/2/13 16:37	A301011	8270D
2,4,6-Tribromophenol [surr]	%	83.6		1/2/13 16:37	A301011	8270D
2-Fluorophenol [surr]	%	37.8		1/2/13 16:37	A301011	8270D
Phenol-d5 [surr]	%	28.2		1/2/13 16:37	A301011	8270D

Arkansas Analytical

Jim Fleer Oxford Environmental & Safety, Inc 14348 Nieman Rd.

Overland Park, KS 66221

**Project: Arkwood Monthly Sampling** 

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#### **QUALITY CONTROL RESULTS**

#### Semivolatiles - Quality Control Analyzed: 02-Jan-13 15:31 By: TB

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch A301011 - 3510C Modified										
Blank (A301011-BLK1)				Prepared 8	k Analyzed:	02-Jan-13				
Pentachlorophenol	ND	10.0	ug/L							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Pyrene	ND	10.0	"							
Pyridine	ND	10.0	"							
Surrogate: 2,4,6-Tribromophenol	35.5		"	40.0		88.7	19.3-113			
Surrogate: 2-Fluorophenol	21.2		"	40.0		53.0	13-75.4			
Surrogate: Phenol-d5	14.7		"	40.0		36.7	13.1-75.2			
LCS (A301011-BS1)				Prepared 8	k Analyzed:	02-Jan-13				
Pentachlorophenol	41.9	10.0	ug/L	40.0		105	48.5-124			
Surrogate: 2,4,6-Tribromophenol	41.0		"	40.0		102	19.3-113			
Surrogate: 2-Fluorophenol	19.7		"	40.0		49.2	13-75.4			
Surrogate: Phenol-d5	13.4		"	40.0		33.5	13.1-75.2			
Matrix Spike (A301011-MS1)	Sour	ce: 12123	03-02	Prepared 8	k Analyzed:	02-Jan-13				
Pentachlorophenol	42.1	10.0	ug/L	40.0	ND	105	29.2-146			
Surrogate: 2,4,6-Tribromophenol	26.3		"	40.0		65.7	19.3-113			
Surrogate: 2-Fluorophenol	16.2		"	40.0		40.5	13-75.4			
Surrogate: Phenol-d5	12.2		"	40.0		30.4	13.1-75.2			
Matrix Spike Dup (A301011-MSD1)	Source: 1212303-02			Prepared 8	k Analyzed:	02-Jan-13				
Pentachlorophenol	42.0	10.0	ug/L	40.0	ND	105	29.2-146	0.333	25.6	
Surrogate: 2,4,6-Tribromophenol	30.0		"	40.0		75.1	19.3-113			
Surrogate: 2-Fluorophenol	16.4		"	40.0		41.0	13-75.4			
Surrogate: Phenol-d5	12.2		"	40.0		30.4	13.1-75.2			

All Analysis performed according to EPA approved methodology when available:

SW 846, Revised December, 1996; EPA 600/4-79-020, Revised March, 1983; Standard Methods, 20th Edition. Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Reviewed by:

Norma James President Arkansas Analytical



11701 Interstate 30, Bldg. 1, Ste. 115

Little Rock, AR 72209 PHONE: 501-455-3233 FAX: 501-455-6118

# **CHAIN OF CUSTODY RECORD**

CLIENT INFORMATION							Project Desc	Turnaround Time				J	Prese	rvatio	n Code	s:				
Oxford Environmental & Safety, Inc.						Arkwood Monthly Sampling 24 Hour					1. Cool, 4 Degrees Centigrade 4. Thiosulfate for Dechlorination								ation	
14348 Nieman Rd.						48 Hour				2. Sulfuric Acid (H <sub>2</sub> SO <sub>4</sub> ), pH < 2 5. Hydrochloric Acid(							id(HCl)		1	
Overland Park KS 66221						Reporting Information 72 Hour				3. Nitric Acid (HNO <sub>3</sub> ), pH < 2 6. Sodium Hydroxide (NaOH									l), pH >	-12
						Telephone: 913-706-3422			Routine (5 Day)	5	0-	TEST	PA	RAI	MET	ERS	RS Bo			e Code
Attn: Jim Fleer						Е	mail: jfleer@oxfo	rdeands.com	Preservative Code:	1									Glass; P	
									Bottle Type:	GA								V =	Septum, A	A = Amber
James &				Fleer												An	Arkans	Work		
Sampler(s) Sign	ature		Sam	pler(s)	Print	ed				Pentachlorophenol (8270D)								Or	der Nu	imber:
Field	SAMPLE CO	DLLECTION			Number			SAMPLE		tac										
Number	Date/s	Time/s	Grab	Comp	of Bottles	Sample Matrix	IDENTIF	CATION/ DESC	RIPTION	Per (82				800				03		
	12/28/12	13:25	X		1	Mater.	Mouth			Х			nle.	-4	100	- In	lug/L Lestma		01	
	12/28/12	13:00					Money in						pice	11	a r	0 1	ingic	1.1	02	
	10/08/12	13	Х		1	Water	vveir			Х			WIFE	1.	V F 3.	ugl	Lesma	4291	02	
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1. Relinquished by	(Signature)	Date/Time		2. Re	ceived	by: (Si	gnature)	SAMPLE C	ONDITION UPON	RECEIP	IN LAB		REMARKS / SAMPLE COMMENTS							
- ox	)	12/28/2012	-		1 .	00	3	1. CUSTODY SE	ALS:	Ye	sN	lo M	S/MSE	Col	lected	from:	Wer			
Jam V	m	15:30	- V			1	)	2. CONTAINERS	CORRECT:	Ye	sN	10 F	formi	4:	1,2	2		We	N P	Nouth
1 7 0		13,50					*	3. COC/LABELS	*		sN	lo /	March		2.1	7	· pl			7.45
-																				2 01
3. Relinquished by	y: (Signature)	Date/Time	100	1		1	(Signature)	4. PRESERVATION	ON CONFIRMED:	Ye	sN		3 (wn			431	Tory	0 12.	161	5.81
1100		12-29-12/11	d1	111	aug	120	mas	5. RECEIVED ON	ICE:	Ye	sN	10 0	3 Por	rav:	15	70	009	0 247	1.6	38.2
11/	)	12-21-12/11		-		0	1	6. TEMPERATUR	RE ON RECEIPT:	1.0										
011				I do	1 (11)	FOR COMPLETION BY				LARON	ı v									
Revision 1		JL		JL 7 W	VIVI	71	VIVV	IL FOR	COMPLETION BY	LAB UN	LI									
12/1/10				1	12	311	12 08/5													